

# KODAK PLUS-X PAN FILM

## IN 135 MAGAZINES

**FILM SPEED**  
**ASA 125**

**IMPORTANT: See new development times.**

Use this film for general black-and-white picture-taking. It offers the optimum combination of medium speed, very fine grain, and very high sharpness even at a high degree of enlargement.

**HANDLING:** Load and unload camera in subdued light. After last exposure and before opening the camera, rewind film into its magazine.

### DAYLIGHT PICTURES

Set exposure meter or automatic camera at **ASA 125**. If negatives are consistently too light, increase exposure by using a lower film-speed number; if too dark, reduce exposure by using a higher number.

If you don't have an exposure meter or automatic camera, use the exposures given in the following table.

DAYLIGHT EXPOSURE TABLE FOR PLUS-X PAN FILM				
For average subjects, use f-number below appropriate lighting condition.				
Shutter Speed 1/250 Second			Shutter Speed 1/125 Second	
Bright or Hazy Sun on Light Sand or Snow	Bright or Hazy Sun (Distinct Shadows)	Cloudy Bright (No Shadows)	Heavy Overcast	Open Shade†
f/16	f/11*	f/8	f/5.6	f/5.6

\*f/8 at 1/125 second for backlit close-up subjects.

†Subject shaded from the sun but lighted by a large area of sky.

For handy reference, slip this table into your camera case.

### FLASH PICTURES

**BLUE FLASHBULBS:** Determine f-number for average subjects by dividing guide number for reflector and flashbulb by distance in feet from flash to subject. If negatives are consistently too light, increase exposure by using lower guide number; if too dark, reduce exposure by using higher guide number.

GUIDE NUMBERS FOR BLUE FLASHBULBS						
Type of Reflector	Flashbulb	Shutter Speed				
		X Sync	M Synchronization			
		1/30	1/30	1/60	1/125	1/250
	Flashcube	110	80	80	60	50
	Hi-Power Cube	160	110	100	90	70
	AG-1B	80	55	55	50	40
	AG-1B	110	80	80	65	55
	M2B	110	NR	NR	NR	NR
	AG-1B	160	110	110	95	80
	M2B	150	NR	NR	NR	NR
	M3B, 5B, 25B	160	150	140	120	100
	6B†, 26B†	NR	150	110	75	50
	M3B, 5B, 25B	220	220	200	170	130
	6B†, 26B†	NR	210	160	110	80

\*Polished bowl. †Bulbs for focal-plane shutter. NR—Not Recommended.

**Caution:** Bulbs may shatter when flashed; use a flashguard over your reflector. Do not use flash in an explosive atmosphere. See flashbulb manufacturer's instructions.

### ELECTRONIC FLASH

Use table with electronic flash units rated in beam candlepower seconds (BCPS). To determine f-number, divide guide number for flash unit by distance in feet from flash to subject. If exposure is unsatisfactory, change guide number as described under "Blue Flashbulbs."

Output of Unit BCPS	350	500	700	1000	1400	2000	2800	4000	5600	8000
Guide Number	45	55	65	80	95	110	130	160	190	220

## FILTERS

When you use a filter, increase the normal exposure by the factor indicated in the table. However, if your camera has a built-in exposure meter that makes the reading through a filter used over the lens, see your camera manual for instructions on exposure with filters.

Filter	No. 6 (K1)	No. 8 (K2)	No. 11 (X1)	No. 15 (G)	No. 25 (A)	Polarizing Screen
Daylight	1.5	2*	4	2.5	6	2.5
Tungsten	1.2	1.5	4*	1.5	4	2.5

\*For correct gray-tone rendering of colored objects.

## PROCESSING

Take exposed film to photo dealer for developing and printing. To process film yourself, follow these instructions:

**Handle in Total Darkness.** However, when development is half completed, you can use a safelight at 4 feet for a few seconds. Equip the safelight with a KODAK Safelight Filter, No. 3 (dark green), and a 15-watt bulb.

**To open the 135 magazine,** hold the magazine with the long end of the spool down and use a lid lifter or a hook-type bottle opener to remove the upper end cap from the magazine.

**Develop:** Most widely used times and temperature are in heavy type.

KODAK Packaged Developers	NEW DEVELOPING TIMES IN MINUTES									
	SMALL TANK—Agitation at 30-Second Intervals					LARGE TANK—Agitation at 1-Minute Intervals				
	65 F 18 C	<b>68 F</b> <b>20 C</b>	70 F 21 C	72 F 22 C	75 F 24 C	65 F 18 C	<b>68 F</b> <b>20 C</b>	70 F 21 C	72 F 22 C	75 F 24 C
HC-110 (Dilution B)	6	<b>5</b>	4½	4	3½	6½	<b>5½</b>	5	4¾	4
POLYDOL	6½	<b>5½</b>	4¾	4¾	3¾	7½	<b>6</b>	5½	4¾	3¾
D-76	6½	<b>5½</b>	5	4½	3¾	7½	<b>6½</b>	6	5½	4½
D-76 (1:1)	8	<b>7</b>	6½	6	5	10	<b>9</b>	8	7½	7
MICRODOL-X	8	<b>7</b>	6½	6	5½	10	<b>9</b>	8	7½	7
MICRODOL-X (1:3)	—	—	11	10	9½	—	—	14	13	11

**Note:** The development times have been changed as a result of a recent comprehensive study of all the factors affecting development.

**Rinse** in KODAK Indicator Stop Bath or KODAK Stop Bath SB-5, at 65 to 75 F (18 to 24 C), for 30 seconds with agitation. You can use a running-water rinse if an acid stop bath is not available.

**Fix** in KODAK Fixer or KODAK Fixing Bath F-5 for 5 to 10 minutes, or KODAK Rapid Fixer or KODAFIX Solution for 2 to 4 minutes, at 65 to 75 F (18 to 24 C) with agitation.

**Wash** the film for 20 to 30 minutes in running water at 65 to 75 F (18 to 24 C). To minimize drying marks, treat the film in KODAK PHOTO-FLO Solution after washing, or wipe the surfaces carefully with a KODAK Photo Chamois or a soft viscose sponge.

You can use KODAK Hypo Clearing Agent after fixing to reduce washing time and conserve water. First, remove excess hypo by rinsing the film in water for 30 seconds. Then, bathe the film in the KODAK Hypo Clearing Agent solution for 1 or 2 minutes with moderate agitation, and wash it for 5 minutes, using a water flow sufficient to give at least one complete change of water in 5 minutes.

**Note:** Keep temperatures of rinse, fix, and wash close to developer temperature.

**Dry** in a dust-free place.

**MORE INFORMATION:** If you have questions about this film, write to Eastman Kodak Company, Department 841, at the address below. For tips on taking good pictures, see the many Kodak books on sale at your photo dealer.

**READ THIS NOTICE:** This film will be replaced if defective in manufacture, labeling, or packaging. Except for such replacement, the sale or any subsequent handling of this film is without warranty or liability even though defect, damage, or loss is caused by negligence or other fault.

Consumer Markets Division



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